**Career Academy Integrated Unit Plan**

**Academy Name: ASM**  **School: Mainland High School**

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| **Integrated Unit Plan Title:** Disaggregating Data on Health Care |
| **Courses to integrate:** Physics, Medical Skills & Services/Health Science 2 |
| **Grade Level:** 11th grade |
| **Timeline & Duration:** 1st quarter (project class time approximately two weeks) |

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| **Unit Summary:** Students will analysis data concerning the cost and state of health care. Using slopes and areas generated by this data in a Cartesian coordinate system, students will determine and understand their meaning to establish a broader understanding of the trends in health care. |

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| **Overview of Activities/Lessons per Course** | | |
| Course | Physics | Medical Skills and Services/Health Science 2 |
| Activity/Lesson  (1st Week) | Discuss the relationship the meaning of slope and area on Cartesian coordinate system for real world variables | Introduce current issues and statistics in the health care system. |
| Demonstrate the interpretation of a graph whose axis define health care variables |  |
| Assignment, practicing the interpretation ofCartesian coordinate system |  |
| Activity/Lesson  (2nd Week) |  | Research project in which students will analyze a set of data and give a presentation on its meaning and impact on the health care system. |

**Lesson Instructions for Physics:**

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| **Standards (Performance Tasks or Course Frameworks or Sunshine State Standards:**  SC.912.N.1.3, SC.912.N.1.4, SC.912.N.1.6, MA.912.S.1.2, MA.912.S.3.2  **Rigor & Relevance (quadrant):** All |
| **Instructions to Teacher:** Teachers will cover standard curriculum covering the interpretation of slope and area on a Cartesian coordinate system. The teacher will then site examples of data from the health care industry offering a description of the rate of health care changes and a totaling of health care affects. The teacher should also be available for the interpretation of health care data that the student is required to research in their Health Skill and Services class. |
| **Instructions to Students:** Students will practice the analysis of graphs through the determination of their slope and areas. Students will also complete a paper indicting the mathematical analysis of their research project in Health Skills and Services. |
| **Instructions for Student Accommodations:** extra time will be provided to those students needing it. |
| **Assessment for Activity:** Students will accurately interpret graph containing real world variables. |
| **Approximate Length of Time for Activity:** Approximately one week covering the analysis of graphs. Additional time will be needed to allow research and analysis of their researched data. |
| **Materials Needed: No specific materials will be needed.** |
| **Resources Needed:** students will need access to research materials for the Health care system and will need availability to excel to assist with their analysis. |
| Attachments: none. |

**Lesson Instructions for Medical Skills and Services/Health Science 2:**

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| **Standards (Performance Tasks or Course Frameworks or Sunshine State Standards ):**  **Unit 2,**  **03.01** Discuss the history of health care services.  **03.02** Identify the basic components of the health care delivery system.  **Rigor & Relevance (quadrant): All** |
| **Instructions to Teacher:** Discuss the current state of Health Care and describe the trends that appear to be occurring. Show data and describe how this data supports (or refutes) the view of current trends.\ |
| **Instructions to Students:** Students will research a topic in the health care industry and gather data concerning that area. Students will analysis the information and report what the data suggests about the health care industry currently and into the future. Students should make suggests how the trend may be maintained or changed to improve the state of the health care system. |
| **Instructions for Student Accommodations:** additional time will be given to students who it. The final research can be provided as a oral presentation or a written report. |
| **Assessment for Activity:** Students will be assessed on the quality of research and the interpretation of their data. |
| **Approximate Length of Time for Activity:** Two weeks |
| **Materials Needed:** None |
| **Resources Needed:** students will need access to research materials for the Health care system and will need availability to excel to assist with their analysis. |
| Attachments: None |